

ABSTRACT OF THE DISCLOSURE

A flexible, hollow, waveguide is featured, that functions in the visible region. The waveguide comprises a hollow, flexible, silica-glass tube having a smooth bore, that is coated with a reflective substance on the inner bore surface. A composite of two sulfide materials are then layered over the reflective substance. The sulfide materials form a high contrasting refractive index of approximately 2 : 1, thus creating a photonic, bandgap tube.